

FIG.3

TYPE NAME TABLE
A (CLASSIFICATION) TYPE
B (NUMBER) TYPE
C (DATE) TYPE
D (NAME) TYPE
E (TEXT) TYPE

FIG.4

A (CLASSIFICATION) TYPE TABLE
CLASSIFICATION BY LAW
IPC
FI
F TERM

FIG.5

B (NUMBER) TYPE TABLE
APPLICATION NUMBER
PUBLICATION NUMBER
INTERNATIONAL APPLICATION NUMBER
INTERNATIONAL PUBLICATION NUMBER
UNEXAMINED PATENT PUBLICATION NUMBER
EXAMINED PATENT PUBLICATION NUMBER
REGISTRATION NUMBER
PRIORITY NUMBER
RELATED APPLICATION NUMBER
NUMBER OF APPEAL

FIG.6

C (DATE) TYPE TABLE
DATE OF FILING
DATE OF PUBLICATION OF APPLICATION
DATE OF FILING OF INTERNATIONAL APPLICATION
DATE OF PUBLICATION OF INTERNATIONAL APPLICATION
DATE OF PUBLICATION OF UNEXAMINED PATENT APPLICATION
DATE OF DOMESTIC RE-PUBLICATION OF PCT INTERNATIONAL APPLICATION
DATE OF PUBLICATION OF OFFICIAL GAZETTE
DATE OF PUBLICATION OF EXAMINED PATENT APPLICATION
DATE OF REGISTRATION
DATE OF PUBLICATION FOR REGISTERED PATENT
DATE OF FILING OF APPLICATION CLAIMING PRIORITY

10/519,861
Yasuo Ishiguro
Filed: December 29, 2004
Attorney Docket: 82478-9900
REPLACEMENT SHEET

FIG.7

D (NAME) TYPE TABLE
APPLICANT/RIGHT-HOLDER
INVENTOR
REPRESENTATIVE
EXAMINER
DESIGNATED COUNTRY

FIG.8

E (TEXT) TYPE TABLE
TITLE OF THE INVENTION
DETAILED DESCRIPTION OF THE INVENTION
CLAIMS
FIELD OF THE INVENTION
DESCRIPTION OF THE PRIOR ART
PROBLEMS TO BE SOLVED BY THE INVENTION
EMBODIMENTS OF THE INVENTION
EFFECTS OF THE INVENTION
BRIEF DESCRIPTION OF THE DRAWINGS
DESCRIPTION OF CHARACTERS
ABSTRACT
ABSTRACT + CLAIMS
FULL TEXT

FIG. 9

ABSTRACT - PATENT INFORMATION SEARCHING SYSTEM

Abstract

Results 1 - 1 of 1

 Display Publication Option Save as PDF Mark All Unmark AllNo Mark

(21) Application number : 08-157097

(22) Date of filing : June 18, 1996

(11) Publication number : 10-003683

(43) Date of publication of application : January 1, 1998

(54) OPTICAL HEAD AND OPTICAL ELEMENT AND HOLDING MEMBER SUITABLE FOR IT

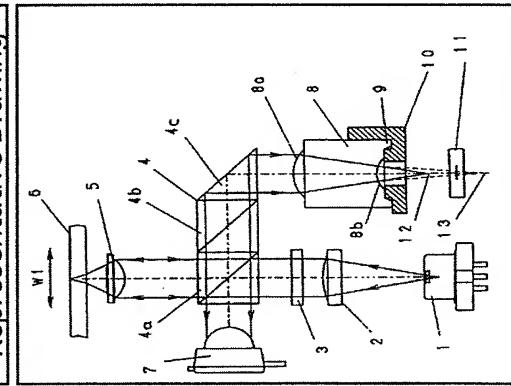
(57) Abstract:

PROBLEM TO BE SOLVED: To provide an optical head excellent in mass-productivity by abolishing the position adjustment and the angle adjustment of the optical element in an optical axis direction.

SOLUTION: An optical element 8 functioning as a detecting lens is a roughly columnar single lens having a convex lens surface 8a having a positive power and a concave cylindrical lens surface 8b having a negative power in this order from a side on which a luminous flux is made incident. Here, the direction of astigmatism to be generated by at least the optical element 8 with respect to the optical axis of the element 8 is automatically stipulated by forming a first engaging part 9 in a prescribed direction with respect to the cylindrical axis of the second lens surface of the optical element 8 and by mounting the element in an optical housing while interposing a holding member 10 having a second engaging part to be engaged with the first engaging part 9.

Change Displayed Information

Representative Drawing



Important Keywords

optical element
engaging part
lens surface
holding member
astigmatic optical head
information recording medium
luminous flux
main beam
optical axis

10/519,861
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Filed: December 29, 2004
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FIG.10

SEARCH PURPOSE INFORMATION
IDEA GENERATION
BEFORE FILING
EXAMINATION
AFTER FINAL DECISION
APPEAL
APPLICATION CLAIMING PRIORITY

FIG. 11

SEARCH CATEGORY INFORMATION	
USER ID	0204111
SEARCH PURPOSE	IDEA GENERATION
TYPE A	0000
TYPE B	0000000000
TYPE C	01000000000
TYPE D	10000
TYPE E	1000000000001
USER ID	0204111
SEARCH PURPOSE	BEFORE FILING
TYPE A	1100
TYPE B	010001000
TYPE C	01000000000
TYPE D	10000
TYPE E	1000000000001
USER ID	0204111
SEARCH PURPOSE	EXAMINATION
TYPE A	1100
TYPE B	010001000
~~~	
USER ID	0204212
SEARCH PURPOSE	IDEA GENERATION
TYPE A	0111
TYPE B	1101011101
TYPE C	01001101100
TYPE D	10110
TYPE E	10001101000001
USER ID	0204212
SEARCH PURPOSE	BEFORE FILING
TYPE A	1100
TYPE B	0101011101
~~~	

101

FIG.12

PATENT INFORMATION SEARCHING SYSTEM

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Example

Japanese Patent Publication Database ▶

Clear Search

CLASSIFICATIONS 203 Date of Publication of Application ~ [] 202

NUMBERS

DATES

NAMES

TEXTS

Applicant

Title of the Invention

Full Text

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Idea Generation Before Filing Examination After Final Decision Appeal Application Claiming Priority

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e

Intranet

FIG.13

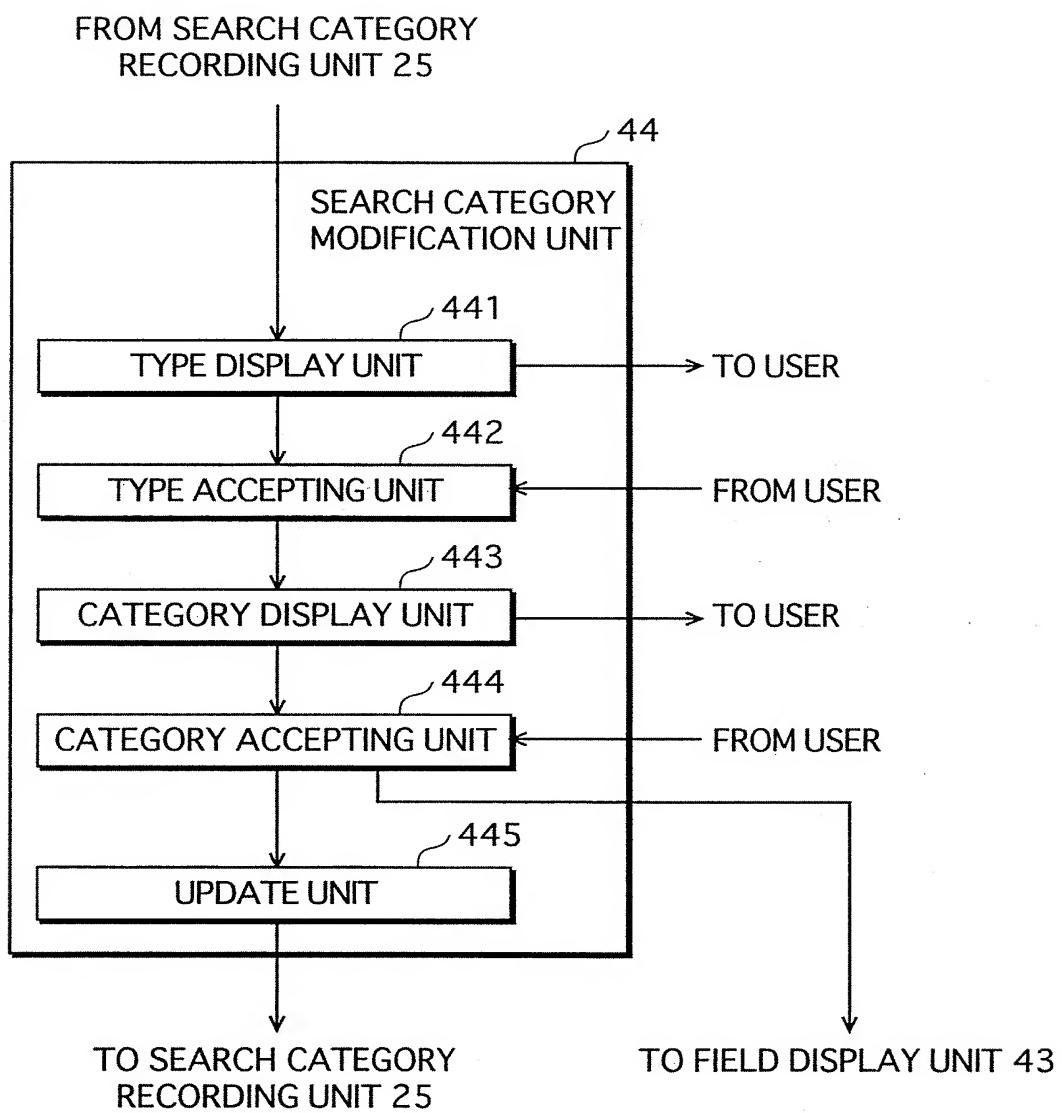


FIG. 14

PATENT INFORMATION SEARCHING SYSTEM

Patent Information Search

Select the database to search, and then enter search conditions.

Example

Japanese Patent Publication Database ▶

Checked items are displayed as search items.
Items are displayed or hid immediately as the
items are checked or unchecked.

Clear

~301

CLASSIFICATION

Classification by Law

IPC

FI

F Term

Classification by Law

IPC

Date of Publication of Application

Applicant

Title of the Invention

Full Text

NUMBERS

DATES

NAMES

TEXTS

Save the Selected Items

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FIG. 15

PATENT INFORMATION SEARCHING SYSTEM

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- X

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Example

Japanese Patent Publication Database ▶

Clear Search

CLASSIFICATION NUMBERS 401

Classification by Law

Application Number
 Publication Number
 International Application Number
 International Publication Number
 Unexamined Patent Publication Number
 Examined Patent Publication Number
 Registration Number
 Priority Number
 Related Application Number
 Number of Appeal

IPC

Publication Number
Registration Number
Date of Publication of Application
Applicant
Title of the Invention
Full Text

Further add checked categories to the list of search categories

DATES
NAMES
TEXTS

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FIG. 16 PATENT INFORMATION SEARCHING SYSTEM

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Japanese Patent Publication Database ▶

Clear Search

CLASSIFICATIONS

NUMBERS

DATES

NAMES

TEXTS

Classification by Law

IPC

Publication Number

Registration Number

Date of Publication of Application

~

Applicant

Title of the Invention

Full Text

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FIG.17

